

ABSTRACT OF THE DISCLOSURE

There is provided an image processing apparatus, operating as described below, employing an error distribution method to perform a halftone process intensively providing dots to achieve high resolution and a high level of tone representation simultaneously. The image processing apparatus, employing the error distribution method to convert an image represented by multiple values into an image provided in binary representation, employs a distribution weighting coefficient to distribute an error caused at a target pixel to a neighboring pixel. The distribution weighting coefficient simply decreases and ultimately attains zero as the distance from the target pixel increases, and the distance extending to attain zero is also set to vary with direction. Such a distribution weighting coefficient allows a halftone process providing dots intensively.